

WHAT IS CLAIMED IS:

1. An automatic gain control circuit comprising:
a gain variable amplifier which controls an amplitude of
a receiving signal based on a control signal;

5 control signal generating means for level-detecting the
receiving signal and then generating a feedback signal as the
control signal for the gain variable amplifier; and

controlling means for deciding at least one of a
generation timing of the control signal and a generation period
10 of the control signal in response to a predetermined physical
quantity, and controlling the control signal generating means.

2. An automatic gain control circuit according to
claim 1, wherein the controlling means includes a look-up table
15 which uses address information as the predetermined physical
quantity and holds information of the generation timing of the
control signal or the generation period of the control signal in
response to the address information.

20 3. An automatic gain control circuit according to
claim 1, wherein the controlling means decides the generation
timing of the control signal or the generation period of the
control signal using a lapsed time in operation of the automatic
gain control circuit as the predetermined physical quantity.

4. An automatic gain control circuit according to claim 1, wherein the controlling means sets the generation period of the control signal shorter than the generation period in a steady operation state, for a predetermined rise time from a non-operated state to the steady operation state when a power supply is turned on.

5. An automatic gain control circuit according to claim 1, wherein the controlling means sets the generation period of the control signal shorter than the generation period in a steady operation state, for a predetermined rise time from a non-operated state to the steady operation state when an intermittent receiving operation is carried out.

6. An automatic gain control circuit according to claim 1, further comprising:
detected output change amount detecting means for detecting an amount of change in a detected output of the receiving signal;

wherein the controlling means decides the generation timing of the control signal or the generation period of the control signal using an amount of change in the detected output as the predetermined physical quantity.

7. An automatic gain control circuit according to

claim 1, further comprising:

fading pitch detecting means for detecting a fading pitch of the receiving signal;

wherein the controlling means decides the generation
5 timing of the control signal or the generation period of the control signal using the fading pitch as the predetermined physical quantity.

8. A receiver device comprising:

10 an automatic gain control circuit including: a gain variable amplifier which controls an amplitude of a receiving signal based on a control signal; control signal generating means for level-detecting the receiving signal and then generating a feedback signal as the control signal for the gain variable
15 amplifier; and controlling means for deciding at least one of a generation timing of the control signal and a generation period of the control signal in response to a predetermined physical quantity, and controlling the control signal generating means.

20 9. An automatic gain control method in a receiver device including a gain variable amplifier which controls an amplitude of a receiving signal based on a control signal, the method comprising:

a control signal generating step of level-detecting the
25 receiving signal and then generating a feedback signal as the

control signal for the gain variable amplifier; and

a controlling step of deciding a generation timing of the control signal or a generation period of the control signal in response to a predetermined physical quantity.

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10. An automatic gain control method in a receiver device according to claim 9, wherein the controlling step decides the generation timing of the control signal or the generation period of the control signal using a lapsed time in operation of the receiver device as the predetermined physical quantity.

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11. An automatic gain control method in a receiver device according to claim 9, wherein the controlling step sets the generation period of the control signal shorter than the generation period in a steady operation state, for a predetermined rise time from a non-operated state to the steady operation state when a power supply is turned on.

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12. An automatic gain control method in a receiver device according to claim 9, wherein the controlling step sets the generation period of the control signal shorter than the generation period in a steady operation state, for a predetermined rise time from a non-operated state to the steady operation state when an intermittent receiving operation is carried out.

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13. An automatic gain control method in a receiver device according to claim 9, further comprising:

a detected output change amount detecting step of detecting an amount of change in a detected output of the receiving signal;

wherein the controlling step decides the generation timing of the control signal or the generation period of the control signal using an amount of change in the detected output as the predetermined physical quantity.

14. An automatic gain control method in a receiver device according to claim 9, further comprising:

a fading pitch detecting step of detecting a fading pitch of the receiving signal;

wherein the controlling step decides the generation timing of the control signal or the generation period of the control signal using the fading pitch as the predetermined physical quantity.

15. A computer-readable recording medium for recording the automatic gain control method for the receiver device as a program to be executed by a computer, said method comprising:

a control signal generating step of level-detecting the receiving signal and then generating a feedback signal as the control signal for the gain variable amplifier; and

a controlling step of deciding a generation timing of the control signal or a generation period of the control signal in response to a predetermined physical quantity.

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1. The present invention relates to a controlling step of deciding a generation timing of the control signal or a generation period of the control signal in response to a predetermined physical quantity.